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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/789,557	02/27/2004	C. Brent Dane	MICI 1003-2	9248	
	590 03/20/2007 EL & WOLFELD LLP		EXAMINER		
P O BOX 366			EVANS, GEOFFREY S		
HALF MOON B	3AY, CA 94019		ART UNIT PAPER NUMBER 1725		
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SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MON	THS	03/20/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/789,557	DANE ET AL.	:			
Office Action Summary	Examiner	Art Unit				
	Geoffrey S. Evans	1725	•			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MON cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this c BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2 Jan	nuary 2007	•				
·= · · · · · ·	action is non-final.		•			
3) Since this application is in condition for allowar		ters, prosecution as to the	e merits is			
closed in accordance with the practice under E	•	• •				
		•				
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>2 and 4-21</u> is/are allowed.						
6)⊠ Claim(s) <u>1 and 3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.		:			
Application Papers			•			
9) The specification is objected to by the Examine	r.		*			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	ion is required if the drawing	(s) is objected to. See 37 Cl	FR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attache	d Office Action or form P	ГО-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	S 119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under ou o.c.o.	3 1 7 0 (a) (a) o. (1).				
1. ☐ Certified copies of the priority documents	s have been received		:			
2. Certified copies of the priority documents		Application No.	•			
3. Copies of the certified copies of the prior			Stago			
application from the International Bureau	- •	received in this Mational	Otage			
* See the attached detailed Office action for a list		received ·				
dec the attached detailed office action for a list	or the certified copies flot	TCCCIVCU.				
	•		• • •			
Attachment(s)		•	:			
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)	•			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						
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## **DETAILED ACTION**

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gawa et al. in U.S. Patent No. 6,090,330 in view of Brown et al. in U.S. patent No. 3,698,797. Gawa et al. discloses a laser system (element 21) for producing an output beam, and target delivery optics (elements 28x,28y) to deliver the output beam to a target workpiece. Brown et al. teaches a laser attenuator with a relay telescope (using lenses 21,15) and a baffle (the second element 12 in figure 1) at the telescope focal point that is large enough to easily pass the output beam propagating to the target (since Brown et al. uses the later pinhole (element 13) to filter the light) and is small enough to block off angle and out of focus back reflections from the target delivery

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optics since the baffle absorbs energy of off angle reflections from the pinhole. It would have been obvious to adapt Gawa et al. in view of Brown to provide this to attenuate the power of the laser beam before it reaches the target workpiece. Regarding claim 3, the baffle is considered to be shaped like a large pinhole or alternatively can be considered a pinhole baffle since it is associated with a pinhole (element 13).

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- 4. Applicant's arguments filed 2 January 2007 have been fully considered but they are not persuasive. The lenses 13 and 15 act together as a relay telescope with lens 15 acting as a reimaging lens. The baffles of Brown are capable of blocking back radiation from both the pinhole and the workpiece. The baffles (element 12) have openings large enough to easily pass the output beam passing through the telescope and yet block off incorrectly angled and out of focus radiation reflected back to the telescope. Applicant's arguments in the paragraph on the bottom of page 3 have not weight since claims 1 and 3 do not recite any fluence or power level of the laser beam and thus could be at any power level. Regarding Applicant's arguments on page 5, the Brown et al. reference will attenuate the laser beam. Laser Beam attenuators in laser drilling apparatus are well known (e.g. see element 214 in Shoemaker et al. in U.S. Patent No. 6,172,329 and element 115 in Liu et al. in U.S. Patent No. 6,803,539, these references are not being used to reject the claims). By passing the light through lenses in applicant's telescope, applicant's apparatus inherently attenuates the laser beam slightly.
- 5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## 6. Claims 2 and 4-21 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey S. Evans whose telephone number is (571)-272-1174. The examiner can normally be reached on Mon-Fri 6:30AM to 4:00 PM, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571)-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272/1000/

Geoffrey S Evans Primary Examiner Art Unit 1725

**GSE**